What is claimed is:

1. A non-aqueous electrolyte secondary battery comprising;

a positive electrode and a negative electrode capable of intercalating and de-intercalating lithium;

a non-aqueous electrolyte solution; and

a solid electrolyte.

wherein said negative electrode contains a composite particle constructed such that at least part of a surface of a nuclear particle containing at least one of tin, silicon and zinc as a constituent element is coated with one of;

a solid solution, and an inter-metallic compound,

which are composed of an element included in said nuclear particle and at least one element, exclusive of the element included in said nuclear particle, selected from a group of elements in a Periodic Table, comprising group 2 elements, transition elements, group 12 elements, group 13 elements and group 14 elements exclusive of carbon,

and said solid electfolyte is a polymer gel electrolyte.

- 2. The non-aqueous electrolyte secondary battery of claim 1, wherein said positive electrode includes a lithium-containing composite oxide and a polymer composing said polymer gel electrolyte, and said negative electrolyte includes said composite particle and a polymer composing said polymer gel electrolyte.
- 3. The non-aqueous electrolyte secondary battery of one of claim 1 and claim 2 wherein main structure of said polymer is one of polyalkylene oxide and a derivative of the same.

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4. The non-aqueous electrolyte secondary battery of one of claim 1

and claim 2 wherein said polymer is one of a polymer and a copolymer including at least one monomer selected from a group comprising acrylonitrile, vinylidene fluoride, hexafluoro-pyopylene, tetrafluoro-ethylene, and perfluoroalkyl vinyl ether.

- 5. The non-aqueous/electrolyte secondary battery of one of claim 1 and claim 2, wherein said /polymer is a polyester polymer whose main structure is one of polyester and a derivative of the same.
- 6. The non-aqueous electrolyte secondary battery of one of claim 1 and claim 2, wherein said polymer is a copolymer of methacrylate and an ethylene oxide.
- 7. The non-aqueous electrolyte secondary battery of one of claim 1 and claim 2, wherein said polymer gel electrolyte includes at least one of structural reinforcements selected from a hydrophobic treated particulate, and a fiber of a non-woven fabric of a polyolefin polymers.

8. A non-aqueous electrolyte secondary battery comprising; positive electrode and a negative electrode capable of intercalating and de-intercalating lithium;

> a non-aqueous electrolyte solution; and a solid electrolyte,

wherein sald negative electrode contains a composite particle constructed such that a least part of a surface of a nuclear particle containing at least one of tin, silicon and zinc as a constituent element is coated with one of;

> a solid solution, and an inter-metallic compound,

which are composed of elements included in said nuclear particle and at least one element, exclusive of the element included in said

nuclear particle, selected from a group of elements in a Periodic Table, comprising group 2 elements, transition elements, group 12 elements, group 13 elements and group 14 elements exclusive of carbon,

and said solid electrolyte is a lithium ion conductive glass-type solid electrolyte.

- 9. The non-aqueous electrolyte secondary battery of claim 8, wherein said lithium ion conductive glass-type solid electrolyte is synthesized with row materials including;
 - a first component including at least a lithium sulfide;
- a second domponent including at least one of a silicon sulfide, a phosphor sulfide and a boron sulfide; and
- a third component including at least one of lithium phosphate, lithium sulfate, lithium silicate.